

Description

A BASKET FOR DISHWASHERS

[001] This invention relates to basket used in dishwashers wherein dishes to be washed are placed.

[002] The baskets used in dishwashers are made by joining together wires in various shapes which are generally covered with plastic material. The basket comprises support wires which enable kitchen utensils such as plates, glasses etc. to stand in an upright position or at a certain angle in order to facilitate their wash and which are perpendicular or inclined to the base plane of the basket and which are fixed to the wires on the base. During the use of the dishwasher, objects with different sizes and dimensions are placed in the basket; as a result, unused volumes appear inside the dishwasher. For instance, in the prior art dishwasher basket (Figure 2) objects are placed at an angle to prevent water to remain on the top part of the glasses after the completion of the washing process and to ensure an effective wash; consequently, unused volumes appear below the inclined plane (A) and when plates which have different heights are placed in the plate section unused volumes are seen above of the small plates (B). The baskets must be designed in such a way that it is possible to place both small and big sized objects in the basket and that in each case it is also possible to place maximum number of objects.

[003] In state of the art, United States Patent US 3181924, optimum placement of objects having different dimensions is ensured by forming two compartments in the top basket that have different base heights. This solution brings about an unused volume below the higher base when the spray arm which directs washing liquid to the objects is fixed under the basket.

[004] In state of the art, European Patent EP 0186157, a basket which is placed on or below the basket is used for placing forks and spoons horizontally.

[005] The object of this invention is to realize a basket used in dishwashers which enables an effective use of the inner volume of the dishwasher by increasing the loading capacity.

[006] A basket used in dishwashers realized in order to attain the object of this invention has been illustrated in the attached drawings, wherein;

[007] Figure 1 – is a perspective view of a dishwasher.

[008] Figure 2 – is a front view of a basket in state of the art.

[009] Figure 3 – is a front view of a basket which comprises a drawer.

[010] Figure 4 – is a front perspective view of a basket which comprises a drawer that is pulled out.

[011] Figure 5 – is a perspective view of a carrier.

[012] Figure 6 – is a perspective view of a drawer.

[013] Figure 7 – is a side view of a basket which comprises a drawer that is pulled out.

[014] Figure 8 – is a side view of a basket which comprises a drawer.

[015] The components in the figures have each been numbered corresponding the following:

1. Dishwasher
2. Body
3. Door
4. Basket
5. Spray arm
6. Holder
7. Support surface
8. Drawer
9. Carrier
10. Sled
11. Base
12. Protrusion
13. Hook
14. Track

[016] Dishwashers (1) comprise a body (2), a door (3) which enables access inside the body (2), one or more baskets (4) which are placed inside the body (2) and on which the objects to be washed are placed and one or more spray arms (5) which directs washing liquid on the objects to be washed.

[017] The basket (4) comprises one or more holders (6) which enable placing objects such as plates at an upright position, one or more support surfaces (7) on which objects to be washed such as glasses, bowls etc. placed, one or more drawers (8) which enable utilizing the unused volumes that appear underneath the support surfaces (7) and/or above the plates that are placed between the holders (6) and a carrier (9) on which a drawer (8) is placed.

[018] To avoid any collision with the spray arm (5) that is integrated at the bottom part of the basket (4), the drawer (8) is positioned in such a way that the area of use under the basket (4) is not effected in any way and that its base is at the approximately same level with the base of the basket (4).

[019] The drawer (8) comprises one or more sleds (10) which enable a sliding movement on the carrier (9), a base (11) which has a perforated structure and one or more protrusions (12) which enable resting of objects such as forks and spoons without touching each other.

[020] Carrier (9) comprises one or more hooks (13) which enable attachment to the basket (4) and one or more tracks (14) on which the sleds (10) rest.

[021] The drawer (8) has a form and structure that covers any formation of unused volumes underneath the support surfaces (7) on which glasses are preferably placed and which are inclined in order to prevent water to remain on the top part of the

glasses. In this embodiment, the drawer (8) provides an additional space wherein objects to be washed can be placed without changing the size of the basket (4) and reducing the washing performance.

[022] The drawer (8) can cover the bottom part of the basket (4) entirely or partially.

[023] In another embodiment of the invention, in order to utilize the unused volumes that appear above plates which are smaller than biggest plates, the drawer (8) is placed underneath the basket (4) in such a way that it covers the volume obtained by elevating the base of the basket (4) on which some of the holders (6) which enable the plates to stand upright are positioned.

[024] In another embodiment of the invention, the drawer (8) comprises fixing elements such as hooks, notches etc. which ensures attachment on the basket (4) without using any carriers (9).

[025] The drawer (8) placed under the basket (4) increases the area of use without taking up an additional volume inside the dish washer (1). In the embodiment wherein the basket (4) structure is not changed, the basket (4) provides convenience in the process of service and production as it can be used in different dishwasher models with or without a drawer (8).

[026] As forks and spoons can be placed inside the drawer (8) an additional basket is not necessary in dishwashers and space saving is ensured.